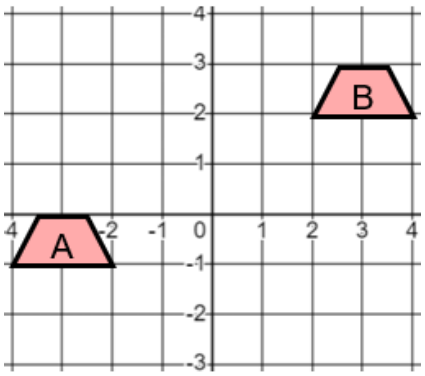
Describing Transformations

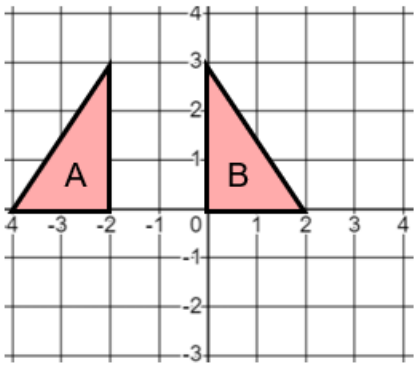
Describe fully the single transformation which maps shape A to shape B

(a)



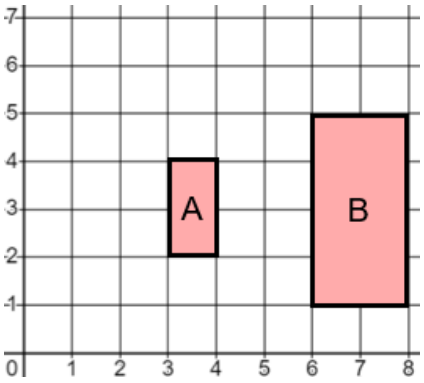
$Translation \begin{pmatrix} 6 \\ 3 \end{pmatrix}$

(b)



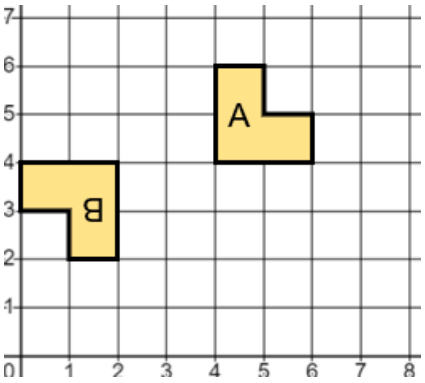
$Reflection\ in\ the\ line\ x = -1$

(c)



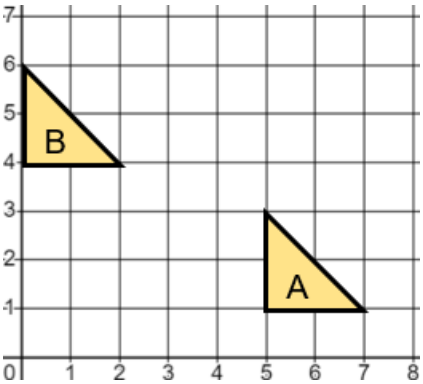
$Enlargement\ SF\ 2\ centre\ (0, 3)$

(d)



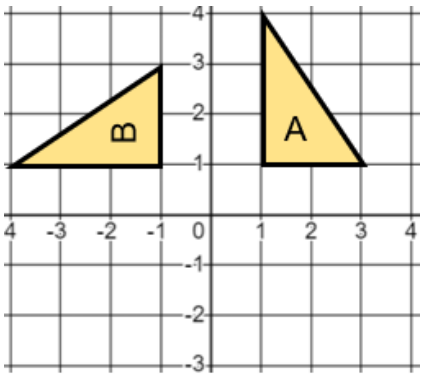
$Rotation\ 180°\ centre\ (3, 4)$

(e)



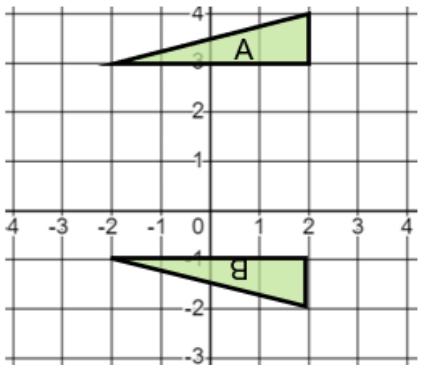
$Translation \begin{pmatrix} -5 \\ 3 \end{pmatrix}$

(f)



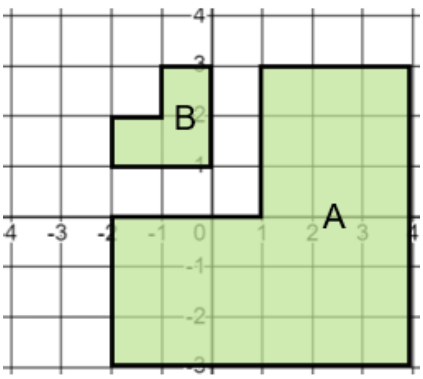
$Rotation\ 90°\ anti-clockwise\ centre\ (0, 0)$

(g)



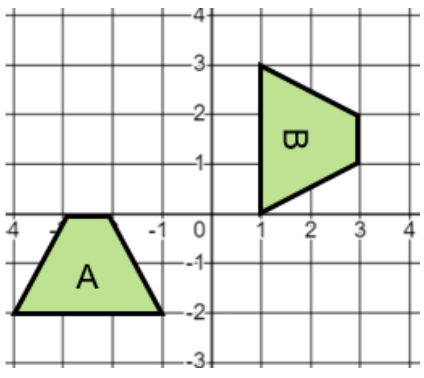
$Reflection\ in\ the\ line\ y = 1$

(h)



$Enlargement\ SF\ \frac{1}{3}\ centre\ (-2, 3)$

(i)



$Rotation\ 90°\ clockwise\ centre\ (1, -2)$